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	DECLARATION I	FOR PATENT APPLICA	ATION	
of the subject matte	nventor, I hereby declard my name and that I beli d below) or an original, fi r which is claimed and fo ery for Multiple Signal An	rst and joint inventor (if	plural names	are listed balance
	27/03 as Application Se	pplicable).		
I hereby claim benefi provisional applicatio	t under Title 35, United 5 n(s) listed below:	States Code, Section 1:	19 of any Unite	ed States
(Application Serial No	(Filing Date)			
(Application Serial No	.) (Filing Date)			
any foreign application application on which p		itle 35, United States C ertificate listed below ar certificate have a filing	ode, Section nd have also i data before th	119 of any dentified below nat of the
Prior Foreign Application	on(s)		Р	riority Claimed
(Number)	(Country)	(Day/Month/Year File		_Yes No
(Number)	(Country)	(Day/Month/Year File	ed)	_Yes No
I hereby claim benefit used application(s) listed beloapplication is not disclosuragraph of Title 35, Used the material information as between the filing date of this application:	sed in the prior United S nited States Code, Sect defined in Title 37, Code	tates application in the ion 112, I acknowledge	the claims of manner provide the duty to di	f this ded by the first isclose
(Application Serial No.)	(Filing Date)	St	atus:	_ Patented _ Pending _ Abandoned
(Application Serial No.)	(Filing Date)	· Sta	atus:	_ Patented _ Pending _ Abandoned

Best Available Copy



DECLARATION FOR PATENT APPLICATION

page 2 of 2

I hereby state that I have reviewed and I understand the contents of the above-identified specification, including the claims, as amended by any amendments referred to above.

I hereby appoint the following patent agent to prosecute this application and to transact all business concerning the application in the United States Patent and Trademark Office:

> David R. Gildea, Reg. No. 38,465 Menlo Patent Agency LLC 435 Hermosa Way Menio Park, CA 94025

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby declare that all statements made herein of my own knowledge are true, that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Inventor: Mai	noneet Singh	+ A-s-		10/11	03	
Signature of Inventor:	California		Date:	- ' - / ' /		

Residence: Sum

Citizen of: India

Post Office Address: 655 S. Fair Oaks Ave., K-301, Sunnyvale, California 94086

Name of Inventor: Sirikiat Lek Ariyavisitakul

Date: Signature of Inventor:

Residence: Alpharetta, Georgia Citizen of: United States of America

Post Office Address: 875 Mount Katahdin Trail, Alpharetta, Georgia 30022-7104

Docket No.: RAD329

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)	RECORDATION FOR PATEN	M COVER SHEET	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office		
Tab settings ⇔ ⇔ ▼	<u> </u>		V		
To the Honorable Commissione	r of Patents and Trademarks	: Please record the attached	original documents or o	opy thereof.	
1. Name of conveying party(ies):			ss of receiving party	•	
Manoneet Singh		Name: Texas	s Instruments Inc	corporated	
Sirikiat Lek Ariyavisitakul		Internal Address:			
Additional name(s) of conveying party(ies) attached? 🖵 Yes 📮 No				
3. Nature of conveyance:		5 ~ 5 ~ m = m = m = m = m = m = m = m = m = m			
Assignment Assignment	Merger	Stroot Addresse:	12500 TI Bouley	/ard	
Security Agreement	Change of Name	Street Address:			
Other					
		City: Dallas	State:	75243 zip:	
Execution Date: 10/01/2003		Additional name(s) &	address(es) attached?	Yes XX No	
4. Application number(s) or paten	t number(s):				
If this document is being filed to	ogether with a new app	ication, the execution of	date of the application	on is:	
A. Patent Application No.(s) 10/608679	V	B. Patent No.(s)			
	Additional numbers a	I ttached? 📮 Yes ሺ No			
5. Name and address of party to		6. Total number of ap	oplications and pate	nts involved: 🚺	
concerning document should be mailed: Name: David R. Gildea		7. Total fee (37 CFR 3.41)\$ 40			
Internal Address: Menlo Pate	nt Agency LLC	Enclosed			
		Authorized to	be charged to depo	osit account	
435 Hermos	na Way	8. Deposit account r	number:		
Street Address: 435 Hermosa Way		071248			
City: Menio Park State: C/	Azip:_94025	(Attach duplicate copy	of this page if paying by	deposit account)	
	DO NOT US	E THIS SPACE			
9. Statement and signature.					
To the best of my knowledge at		information is true and	i correct and any att	ached copy	
is a true copy of the original document. David R. Gildea		18 500-	אט/טו	72057	
Name of Person Signin	<u>/</u>	Signature	.0,02/	Date	
	imber of pages including cov	er sheet, attachments, and	documents: 3		

Form PTO-1595 RECORDATION FORM COVER SHEET U.S. DEPARTMENT OF COMMERCE					
(Rev. 03/01)	PATENTS		· · · · - · · · ·	Trademark Office	
OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇔ ⇔ ▼ ▼	V	7 Y	▼	v	
To the Honorable Commissioner of Patent	s and Trademarks: Ple	ase record the attached o	riginal documents or copy	y thereof.	
Name of conveying party(les):		2. Name and address	of receiving party(ie	es)	
Manoneet Singh	,	•	Instruments inco	-	
Sirikiat Lek Ariyavisitakul					
·		Internal Address: _			
Additional name(s) of conveying party(es) attached	? 📭 Yes 📮 No				
3. Nature of conveyance:					
XX Assignment	ger	1	2500 TI Bouleva	rd	
🕒 Security Agreement 🕒 Cha	inge of Name	Street Address:			
Other					
C OWIE		City:Dallas	State:TX	75243 _zip:	
Execution Date: 10/01/2003		Additional name(s) & ac	idress(es) attached? 📮	Yes XX No	
4. Application number(s) or patent numbe	r(s):				
If this document is being filed together v	with a new applica	tion, the execution da	ite of the application	is:	
A. Patent Application No.(s)		B. Patent No.(s)			
10/608679					
Ad	l ditional numbers attact	hed? 📮 Yes 🏋 No			
5. Name and address of party to whom co		. Total number of app	olications and patent	s involved:	
concerning document should be mailed:	;	Total foo /27 CEP 2	3.41) <u>\$</u> 40)	
Name:David R. Gildea	' '		5.4 i j		
Internal Address: Menlo Patent Age	ncy LLC	Enclosed			
		Authorized to b	oe charged to depos	it account	
		3. Deposit account nu	ımber:		
Street Address:435 Hermosa Way					
		071248			
City: Menlo Park State: CA Zi	p:94025	(Attach duplicate copy of	of this page if paying by d	eposit account)	
DO NOT USE THIS SPACE					
9. Statement and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
David R. Gildea 1) 10/03/200 3					
Name of Person Signing Signature Date					
	ages including cover s	sheet, attachments, and d	ocuments: 3		

30 04 09:01a

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Sirikiat Lek Ariyavisitakul of 875 Mount Katahdin Trail, Alpharetta, Georgia 30022-7104, hereafter referred to as "Assignor", has invented certain new and useful inventions as described and set forth in the below identified application for the United States Letter Patent entitled:

Joint Timing Recovery for Multiple Signal Antennas

	filed herewith; or				
<u>x</u>	Serial No.	10/608679	filed on	06/27/03;	

WHEREAS, <u>Texas Instruments Incorporated</u> of 1.2500 Tl Boulevard, <u>Dallas, Texas 75243</u>, hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

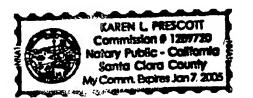
FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to the Assignee, but at the Assignee's expense, (a) cooperate with Assignee in the prosecution of the U.S. patent application and foreign counterparts on the invention and any improvements, (b) execute, verify acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

In TESTIMONY WHEREOF, Assignor hereunto signs.

| 10/1/2003 |
| signature of Sirikiat Lek Ariyavisitakul | date |
| the county of Santa Clara, state of California, |
| before me this date | October | 2003 | personally appeared Sirikiat Lek Ariyavisitakul who is | personally known to me or | proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted executed the document.

Notary Stamp/Seal



ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Manoneet Singh of 655 S. Fair Oaks Ave., K-301, Sunnyvale, California 94086, hereafter referred to as "Assignor", has invented certain new and useful inventions as described and set forth in the below identified application for the United States Letter Patent entitled:

Joint Timing Recovery for Multiple Signal Antennas

filed herewith; or

x Serial No. 10/608679 filed on 06/27/03;

WHEREAS, <u>Texas Instruments Incorporated</u> of <u>12500 TI Boulevard</u>, <u>Dallas</u>, <u>Texas 75243</u>, hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any <u>Letters Patent which may be granted on the same</u>;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been and enjoyed by Assignor had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to the Assignee, but at the Assignee's expense, (a) cooperate with Assignee in the prosecution of the U. S. patent application and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assigner hereunto signs.

| 10 | 1/6 3 |
| signature of Manoneet Singh | date

In the county of Santa Clara, state of California,

personally known to me or proved to me on the busis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person or the entity upon behalf of which the person acted executed the document.

Notary Stamp/Seal



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